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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Con. Date if Known

Application Number **60/158,714**  
 Filing Date **10/8/99**  
 First Named Inventor **Naofal Al-Dhahir**  
 Examiner Name  
 Group/Art Unit

Sheet 1 of 1

Attorney Docket ID **Al-Dhahir 2**JCS29 U.S. PRO  
09/671638

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## US PATENT DOCUMENTS

Examiner Initials	Cite No.	Number	Name of patentee or applicant of cited document	Date of publication (MM-DD-YYYY)	Pages, columns, lines, where relevant passages or FIGs. Appear
	AA				
	AB				
	AC				
	AD				
	AE				
	AF				

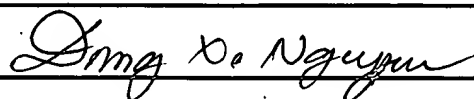
## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Office	Number	Name of patentee or applicant of cited document	Date of publication (MM-DD-YYYY)	Pages, columns, lines, where relevant passages or FIGs. Appear
	BA					
	BB					
	BC					
	BD					
	BE					
	BF					

## OTHER PROR ART NON-PATENT DOCUMENTS

Examiner Initials	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article, title of the item(book, magazine etc.), data, page(s), volume-issue number(s), publisher, cite and/or country where published.
JXN	CA	J. YANG et al, "Joint Transmitter-Receiver Optimization for Multi-Input Multi-Output Systems with Decision Feedback," IEEE Transactions on Information Theory, vol. 40, No. 5, Sep 1994, pp. 1334-1347.
JXN	CB	A. DUEL-HALLEN, "A Family of Multiuser Decision-Feedback Detectors for Asynchronous Code-Division Multiple-Access Channels," IEEE Transactions on Communications, Col. 43, No. 2/3/4, Feb/March/Apr 1995, pp. 412-434.
JXN	CC	A. DUEL-HALLEN, "Equalizers for Multiple Input/Multiple Output Channels and PAN Systems with Cyclostationary Sequences," IEEE Journal on Selected Areas in Communications, vol. 10, No. 3, April 1992, pp. 630-639.
JXN	CD	NAOFAL AL-DHAHIR et al, "The Finite-Length Multi-Input Multi-Output MMSE-DFE," IEEE Transactions on Signal Processing, vol. 48, No. 10, Oct. 2000, pp. 2921-2936.
	CE	
	CF	

Examiner Signature



Date Considered

10/17/2003